13. The method of claim 10, wherein creating the at least one stylized painting effect image comprises:

blending the stylized painting effect image with the original image in the regions of the mark-ups.

14. The method of claim 10, further comprising:

calculating: (i) a left image disparity map between a left pixel matrix and a right pixel matrix, and (ii) a right image disparity map between the right pixel matrix and the left pixel matrix for use in blending together the left stylized painting effect image and the right stylized painting effect image, wherein the left pixel matrix is based on the left raw image or a left processed image, and the right pixel matrix is based on the right raw image or a right processed image.

15. The method of claim 14, wherein the step of generating the photo filter stylized painting effect image includes:

determining a horizontal position movement parameter along an X axis of the left pixel matrix and the right pixel matrix;

filling up a left interpolated pixel matrix by moving pixels in the left pixel matrix along the X axis based on the horizontal movement parameter;

filling up a right interpolated pixel matrix by moving pixels in the right pixel matrix along the X axis based on the horizontal movement parameter; and

creating the photo filter stylized painting effect image by blending together the left interpolated pixel matrix and the right interpolated pixel matrix.

16. The method of claim 15, wherein the step of generating the photo filter stylized painting effect image by blending together the left interpolated pixel matrix and the right interpolated pixel matrix is based on disparity confidence levels, gradients, or combination thereof in the left image disparity map and the right image disparity map.

17. The method of claim 15, wherein determining the horizontal position movement parameter includes:

receiving, via the user input device, a two-dimensional input selection of the presented original image from the user; and

tracking, via the user input device, motion of the two-dimensional input selection from an initial touch point to a final touch point of the presented original image.

18. The method of claim 17, wherein:

each pixel is associated with a respective vertex of a matrix of vertices;

each vertex has a position attribute;

the position attribute of each vertex is based on a three-dimensional location coordinate system and includes an X location coordinate on an X axis for horizontal position, a Y location coordinate on a Y axis for vertical position, and a Z location coordinate on a Z axis for a depth position; and

the step of applying the stylized painting effect selection from the user to: (i) the left raw image or the left processed image to create the left photo filter image, (ii) the right raw image or the right processed image to create the right photo filter image, or (iii) combination thereof is based on the Z location coordinate to vary a filtering effect strength of a photo filter function to transform each pixel depending on the depth position of the respective vertex associated with each pixel.

19. A non-transitory computer-readable medium storing program code which, when executed, is operative to cause an electronic processor to perform the steps of:

capturing, via a depth-capturing camera, at least one of a left raw image and a right raw image;

presenting, via an image display, an original image, wherein the original image is based on the left raw image, the left processed image, the right raw image, the right processed image, or combination thereof;

receiving, via a user input device, markups, a stylized painting effect selection, and a style selection from the user;

creating at least one stylized painting effect image with a stylized painting effect scene;

applying the at least one stylized painting effect image to the mark-ups in: (i) the left raw image or the left processed image to create a left stylized painting effect image, (ii) the right raw image or the right processed image to create a right stylized painting effect image, or (iii) combination thereof;

generating a stylized painting effect image having an appearance of a spatial movement or rotation around the stylized painting effect scene of the at least one stylized painting effect image, by blending together the left stylized painting effect image and the right stylized painting effect image; and

presenting, via the image display, the stylized painting effect image.

20. The non-transitory computer-readable medium of claim 19, wherein the receiving comprises:

receiving a selection of an image from a user; and

wherein the creating comprises:

applying the image selection to the markups using a neural style transfer.

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